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PALEOGENE COASTAL ONLAP STRATIGRAPHY OF THE SAVANNAH RIVER REGION, SOUTHEASTERN ATLANTIC COASTAL PLAIN

HARRIS, W. Burleigh and ZULLO, Victor A., Dept. of Earth Sciences, University of North Carolina at Wilmington, Wilmington, N. C. 28403.

Eighteen cores from the Savannah River Plant (SRP) preserve 12 Paleogene depositional sequences which correlate to regional outcrops and worldwide coastal onlap cycles. The Danian through lower Ypresian Ellenton Formation includes coarse transgressive siliciclastics, and highstand biogenic silica or fine siliciclastics representing parts of cycles TA1.2, TA1.3, TA2.4 and TA2.5. Based on age constraints of the under- and overlying units, fine and coarse siliciclastics of the overlying non-fossiliferous Williamsburg Formation represent either the TA2.7, TA2.8, or the TA2.9 Cycle of the Ypresian. Coarse highstand siliciclastics of the overlying Congaree Formation have not yielded age-diagnostic fossils on the SRP, but outcrops contain Lutetian megafossils which indicate correlation to parts of two cycles between TA3.2 and TA3.4. The Congaree Formation overlies the 49.5 Мa Type 1 unconformity. Carbonate of the Bartonian McBean Formation indicates deposition during the highstand part of the TA3.5/TA3.6 On the basis of planktonic Foraminifera and megafossils, the overlying Priabonian Utley Limestone and Dry Branch Formation are assigned to the TA4.2 Cycle. Utley Limestone is lowstand material occupying incised valleys on the 39.5 Ma Type I unconformity. The overlying Priabonian Tobacco Road Sand is placed in the TA4.3 Cycle. The mid-Oligocene 30 Ma sea level fall has locally removed Priabonian and Bartonian units.

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